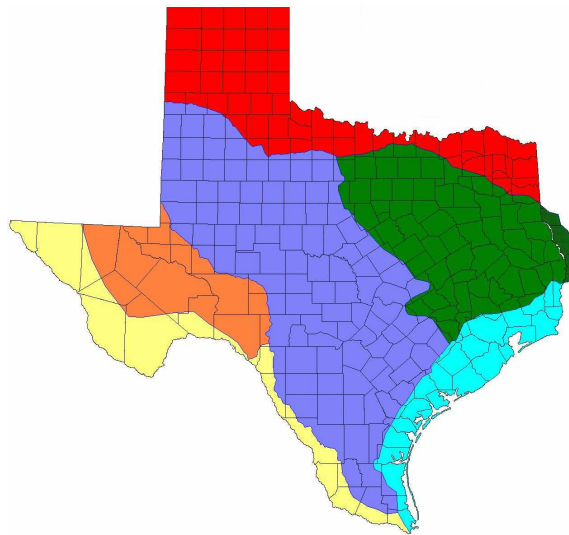


**U.S. Fish and Wildlife Service
Region 2**

**EAST TEXAS
ECOSYSTEM PLAN
BEYOND 2000**



**Prepared by the
EAST TEXAS ECOSYSTEM TEAM**

**LAST REVISED
November 30, 2000**

Addendum to the East Texas Ecosystem Plan
February 15, 2001

1. To Goal #2, page 8, add the following new objective and strategies:

Objective 2: With partners, work toward the restoration and protection of water quality in important river and lacustrine habitats within the East Texas Ecosystem.

Strategy 2.2.1. Appropriate Field Offices will review and coordinate with other Federal, State, and local agencies in the development or renewal of water quality standards, discharge permits, and related water quality planning.

Strategy 2.2.2. Appropriate offices will respond and coordinate FWS concerns and recommendations on contaminant spills, emergency response, etc. to insure that fish and wildlife resources are adequately considered during clean-up activities.

2. East Texas Ecosystem Team Members:

Replace Ms. Jenness McBride of Lafayette ESFO with Ms. Joyce Mazourek

Delete Mr. Jim Neal as Single Point of Contact (SPOC); add Thomas J. Cloud, Jr. as SPOC

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ECOSYSTEM DESCRIPTION

The East Texas Ecosystem encompasses the drainages of the Brazos, Trinity, Neches, and Sabine Rivers, with the exception of their coastal sections and the upper Brazos. The area's rivers run roughly parallel northwest to southeast, where they drain into the Gulf of Mexico. While the majority of this ecosystem is in east Texas, it also includes a portion of the Sabine River drainage in Louisiana including parts of Beauregard, Caddo, Desoto, Sabine and Vernon Parishes (Figure 1). The East Texas Ecosystem contains much of Texas' remaining bottomland hardwood wetlands, as well as considerable areas of mixed pine-hardwood forest and commercial pine plantations. Other ecological communities include large areas of Post Oak Savannah, Blackland Prairie, and Cross Timbers and Prairies ecological areas. It also includes four National Forests (Sabine, Angelina, Davy Crockett and Sam Houston), Big Thicket National Preserve, Trinity River National Wildlife Refuge (NWR), Peason Ridge of the Fort Polk military base, the Alabama-Coushatta Indian Reservation, numerous state wildlife management areas, and many large reservoirs. The Dallas-Fort Worth metroplex in the upper part of the Trinity River watershed is a major presence and influence.

The East Texas Ecosystem has a significant amount of forested, scrub-shrub, emergent, aquatic bed, and other palustrine and lacustrine wetlands. These wetlands and deep water areas provide habitat for large numbers of migratory waterfowl, wading birds, shorebirds, and resident species of amphibians, reptiles and mammals. Reservoirs and streams provide significant sport fisheries and some commercial operations. Both bottomland and upland woodlands, savannah, and grasslands provide breeding and migratory habitat for neotropical migrants. Remnant areas of longleaf pine and native prairie also occur. This ecosystem is the major bald eagle nesting and wintering area of Texas and contains all of the state's extant habitat for red-cockaded woodpeckers. It includes former range of the Louisiana black bear and potential habitat for reintroduction or natural expansion of that species, and the endangered Houston toad occurs in eight of its counties. Currently, 9 endangered species, 2 threatened species, 1 proposed species, 3 candidate species, and 43 species of concern are known to occur within the boundaries of the East Texas Ecosystem. (Appendix A).

Major threats to the East Texas Ecosystem are continual loss and fragmentation of habitat from urban sprawl, forest land conversion to improved pasture, mineral extraction, dam and highway construction, pipeline and transmission line installation, soil and water contamination, short-rotation management of commercial forests, and introduction of exotic species.



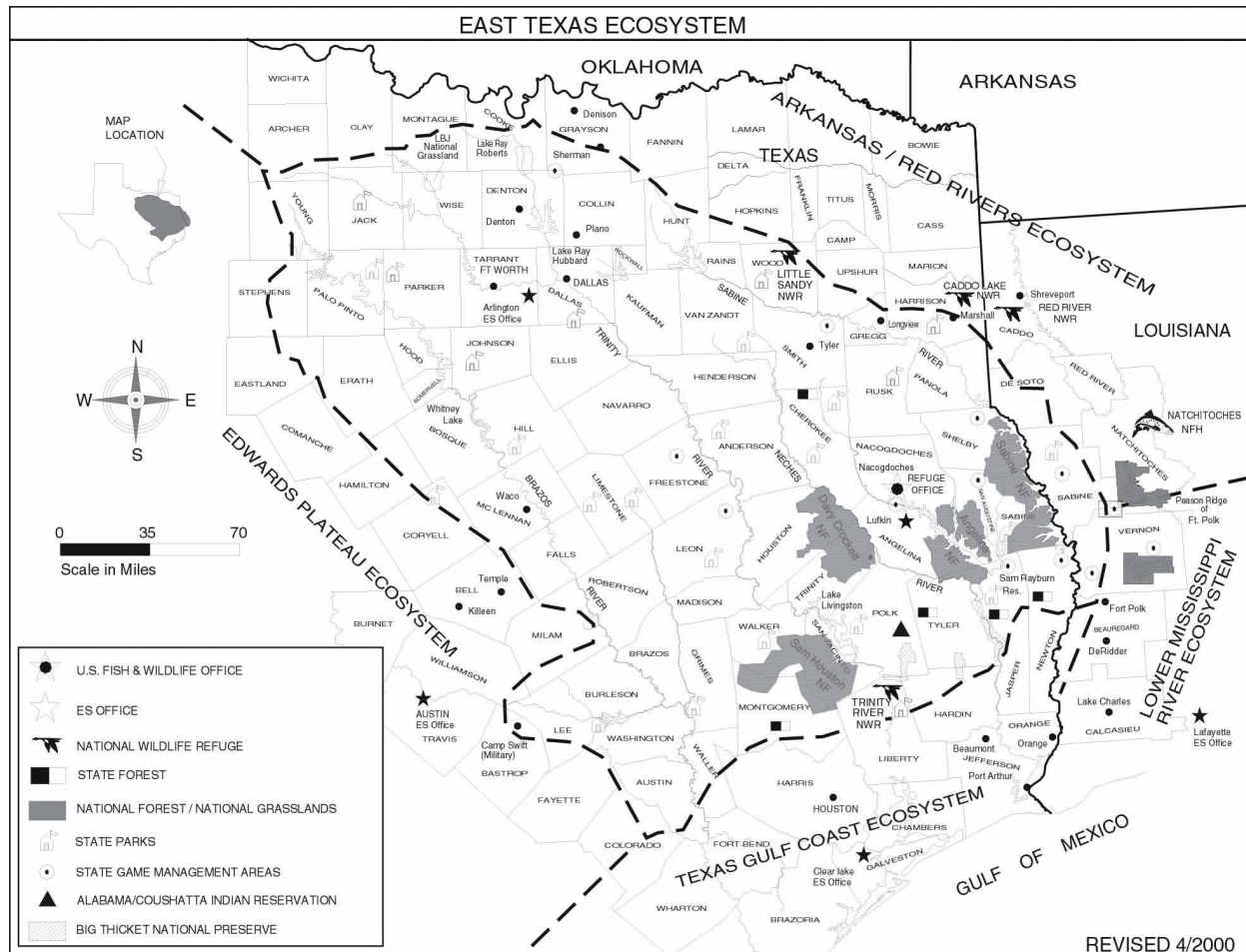
STATEMENT OF GOALS

The goals of the East Texas Ecosystem Plan are to:

- Promote biological diversity in the East Texas Ecosystem through protection, restoration and management of bottomland hardwood, palustrine wetland, native prairie, and longleaf-pine and pine/hardwood habitats, in cooperation with private landowners and state and local jurisdictions.
- Maintain and restore the capability of important riverine and lacustrine habitats to support healthy populations of sport/commercial fishes, mussels, declining species, and other important fauna and flora.
- Improve the viability of endangered, threatened, candidate, and species of special concern by protecting and enhancing essential habitats.
- Work cooperatively to educate diverse segments of the human population, emphasizing the importance of protecting naturally diverse lands and waters, and fostering compatible recreational and economic opportunities.
- Work cooperatively with State, private, and federal entities to assess, manage, and restore fish and wildlife resources and their habitat throughout the ecosystem and emphasize the importance of biodiversity, native flora and fauna conservation, and management.



FIGURE 1. MAP OF THE EAST TEXAS ECOSYSTEM



GOALS OBJECTIVES AND STRATEGIES

The following objectives and strategies have been identified and developed to accomplish the goals of the East Texas Ecosystem Plan. Base and above base funds required per fiscal year to meet these goals, objectives, and strategies are listed in Appendix B.

GOAL 1: Promote biological diversity of the East Texas Ecosystem through protection, restoration and management of bottomland hardwood, palustrine wetland, native prairie, and longleaf-pine and pine/hardwood habitats, in cooperation with private landowners and state and local jurisdictions.

OBJECTIVE #1: In cooperation with partners, document diversity of bottomland hardwood sites, prioritize sites for acquisition, and pursue protection through acquisition from willing sellers and other mechanisms.

STRATEGY (1.1.1): FWS's Division of Realty and Refuge Planning will continue fee acquisition of **bottomland hardwood forest/wetland** complex to complete the approved 79,600-acre Trinity River NWR in Liberty County.

STRATEGY (1.1.2): The ecosystem team will help evaluate additional **bottomland hardwood and associated wetlands** for possible acquisition and other forms of protection. Priorities include the Neches River (Angelina, Cherokee, Houston, Polk, Trinity counties) and Sabine River (Harrison, Panola, Smith, Wood counties) corridors, and Trinity River floodplain north of the approved Trinity NWR acquisition boundary.

STRATEGY (1.1.3): Trinity River NWR, in partnership with local universities and interested parties, will develop a database of resident **avian, mammalian, and herpetological** species as a tool for management efforts, and to document the diversity of high-quality bottomland hardwood habitats.

OBJECTIVE #2: Restore and develop wetlands on private and public lands through cooperative landowner programs under Federal authorities.

STRATEGY (1.2.1): Arlington FO, Clear Lake ES, and Lafayette ES will participate each year with farmer organizations, local news media, etc., to promote the Partners for Fish and Wildlife Program and seek new **cooperators**.

STRATEGY (1.2.2): Arlington FO, Clear Lake ES, and Lafayette ES will work with NRCS, TFS, TPWD, and other entities to identify and develop **wetland protection projects** through the Partners for Fish and Wildlife Program or other mechanisms. The goal will be six projects, involving at least 600 acres, during each fiscal year.

STRATEGY (1.2.3): Arlington FO, Clear Lake ES, and Lafayette ES will work with NRCS and private landowners to identify sites and provide technical assistance for the Wetland Reserve Program (**WRP**), Wildlife Habitat Incentive Program (**WHIP**), and Environmental Quality Incentive Program (**EQUIP**).

STRATEGY (1.2.4): Arlington FO, Austin FO, Clear Lake ES and Lafayette ES will review proposed actions/projects of Federal agencies or those requiring a **Federal permit or license** and make recommendations to avoid, minimize, or mitigate loss of wetlands, and will inspect FmHA inventory properties for wetlands and other important resources.

STRATEGY (1.2.5): All stations will record the presence of invasive, exotic species and document the degree of invasion of natural communities. Efforts will be made to find methods of control or eradication and convey this information to private and public landowners.

STRATEGY (1.2.6): East Texas Realty Suboffice will act as the Region 2 contact for the Lower Mississippi Joint Venture of the North American Waterfowl Management Plan including the West Gulf Coastal Plain all bird-all habitat initiative.

STRATEGY (1.2.7): The Arlington FO, Austin FO, Clear Lake ES, East Texas Suboffice, East Texas Refuge Suboffice will support the East Texas Wetlands Project partnership with Ducks Unlimited, TPWD, and NRCS by working with private landowners to restore, enhance, and establish habitat for federal trust resources.

OBJECTIVE #3: Through active participation with partners, advocate, plan, and implement projects to restore native prairie.

STRATEGY (1.3.1): Arlington FO and Clear Lake ES will initiate conservation agreements with private landowners to restore and develop **native prairie** sites or develop management plans for prairie restoration through the Partners for Wildlife Program or other mechanisms. The goal will be at least 300 acres during each fiscal year.

STRATEGY (1.3.2): Arlington FO will coordinate with the USFS on recommendations for management and restoration of **native prairie** sites on the Caddo and LBJ National Grasslands and Sam Houston National Forest (NF).

OBJECTIVE #4: Sustain the ecological value and economic productivity of **longleaf-pine and shortleaf-pine/mixed-hardwood communities and their associated habitats**.

STRATEGY (1.4.1): Lafayette ES will work with Fort Polk and formulate and implement measures to enhance, protect, and restore natural diversity values on the **Peason Ridge** area in a manner compatible with the Department of Army's use of that area as a military training

site. Efforts will focus on longleaf-pine and bottomland hardwood, and unique communities such as pitcher plant bogs, hillside seeps, etc

STRATEGY (1.4.2): Arlington FO, and the East Texas and Refuges Suboffices will cooperate with private landowners and The Nature Conservancy on implementation of the **Pineywoods Conservation Initiative and Ecoregional Planning**.

STRATEGY (1.4.3): Arlington FO through the East Texas Suboffice will continue to assist International Paper (formerly Champion International Corporation) with their 2,000-acre Red-cockaded Woodpecker (**RCW**) and Longleaf-Pine Management Area in Trinity County, Texas.

GOAL #2: Maintain and restore the capability of important riverine and lacustine habitats to support healthy populations of sport/commercial fishes, mussels, declining species, and other important fauna and flora.

OBJECTIVE 1: In cooperation with partners, promote the wise use of fishery resources, and help to restore declining populations of aquatic species in the East Texas Ecosystem.

STRATEGY (2.1.1): Natchitoches and Uvalde NFH's, and Baton Rouge and Oklahoma FRO's, will work with LDWF and TPWD to produce **paddlefish** fingerlings for stocking in East Texas rivers.

STRATEGY (2.1.2): Natchitoches and Tishomingo NFH's; Baton Rouge and Oklahoma FRO's; and the Gulf Coast Fisheries Coordination Office (FCO), will work with LDWF and TPWD to enhance habitat and produce **striped bass** brood-stock and fingerlings for restoration stocking in east Texas and west Louisiana rivers.

STRATEGY (2.1.3): Appropriate FRO, FO, and ES offices will aid TPWD and USFS in determining the current status of **fish communities in east Texas rivers**, with specific emphasis on sportfish and declining species.

GOAL #3: Improve the viability of endangered, threatened, and candidate species and species of special concern by protecting and enhancing essential habitats.

OBJECTIVE # 1: Work with partners to restore endangered species habitat and minimize impacts to populations of rare species.

STRATEGY (3.1.1): Arlington FO, through the East Texas Suboffice, will participate in implementation of the Regional **Habitat Conservation Plan** for the Red-cockaded Woodpecker on Private Land in the East Texas Pineywoods, along with TPWD and TFS.

STRATEGY (3.1.2): The East Texas Suboffice will assist the West Gulf Coastal Plain **RCW** Translocation Cooperative in the monitoring, capture, augmentation, and translocation of juvenile RCW's into viable sub-populations in Texas, Oklahoma, Arkansas, and Louisiana.

STRATEGY (3.1.3): East Texas Suboffice will cooperate with TPWD and TFS in locating and protecting **RCW** habitat on private lands, and will develop outreach materials for private landowners with RCW questions and concerns.

STRATEGY (3.1.4): Arlington FO will make recommendations for **RCW** management in the Alabama-Coushatta Indian Reservation's Natural Resources Plan, and will plan and monitor implementation.

STRATEGY (3.1.5): The East Texas Suboffice will continue to assist USFS in monitoring **RCW** group composition and related habitat conditions associated with impacts of the February 1998 windstorm within RCW Habitat Management Areas, and will provide technical assistance to expedite habitat restoration.

STRATEGY (3.1.6): Lafayette ES will work in partnership with Fort Polk military installation, Louisiana, to plan and implement recovery actions on the Peason Ridge area for the **RCW**.

STRATEGY (3.1.7): East Texas Suboffice will assist USFS in annual surveys for the **Navasota ladies'-tresses** in Angelina National Forest and will develop conservation recommendations for future management.

STRATEGY (3.1.8): Austin FO will work with gas pipeline companies, roadway projects, The Nature Conservancy and other partners to develop a regional conservation approach for the **Navasota ladies'-tresses** and to streamline the consultation process.

STRATEGY (3.1.9): Arlington FO, East Texas Suboffice, and Clear Lake ES will work with the USFS and private landowners to develop management plans for **seven plant species of special concern** found within and adjacent to the boundaries of Angelina, Sabine, and Davy Crockett National Forests.

STRATEGY (3.1.10): Clear Lake ES will pursue the development of a management and restoration plan with private landowners for the endangered **Texas trailing phlox**.

STRATEGY (3.1.11): Clear Lake ES and East Texas Refuges Suboffice will work with cooperating landowners and land-managers to protect and restore habitat of the endangered **white bladderpod**.

STRATEGY (3.1.12): Clear Lake ES and the East Texas Refuges Suboffice will contact landowners and land managers of known and potential sites of the **Neches River rose-mallow**, a candidate species, and pursue conservation agreements and restoration efforts.

STRATEGY (3.1.13): Clear Lake ES will initiate development of a listing package for the **Neches River rose-mallow**, a candidate species.

STRATEGY (3.1.14): Clear Lake ES will continue a status survey of the **Texas golden gladeceess**, a candidate species, and initiate the listing process if warranted.

STRATEGY (3.1.15): Clear Lake ES will continue to serve as the representative for Texas on the **Louisiana Black Bear** Conservation Committee.

STRATEGY (3.1.16): Clear Lake ES, East Texas Suboffice, Jackson ES, and Lafayette ES will pursue development and implementation of Conservation Agreements for the **Louisiana pine snake** on National Forest lands and private land, and examine the need to list the species.

STRATEGY (3.1.17): Austin FO will work with TPWD, NRCS, and others to develop technical guidance for private landowners regarding land-use practices that may impact **Houston toads**, and will conduct a Section 7 consultation to address incidental take of individual toads.

STRATEGY (3.1.18): Austin FO and Clear Lake ES will pursue revision of the recovery plan for the **Houston toad** based on new information and current recovery goals.

STRATEGY (3.1.19): Arlington FO, AustinFO, Clear Lake ES, East Texas Suboffice, and Lafayette ES will conduct **Section 7** consultation activities on federally funded or permitted development proposals that may affect listed species in the East Texas Ecosystem

GOAL #4: Work cooperatively to educate diverse segments of society emphasizing the importance of protecting naturally diverse lands and waters, and fostering compatible recreational and economic opportunities.

OBJECTIVE #1: Emphasize the importance of biodiversity, endangered species conservation, and the prudent use of fish and wildlife resources, in public contacts and presentations.

STRATEGY (4.1.1): All Stations will emphasize **biodiversity and natural resource conservation** through review of Federal projects, participation in public events, and in presentations to schools, universities, public and private organizations, professional conferences and meetings, and representatives of the media.

STRATEGY (4.1.2): Provide a safe, quality wildlife refuge experience to the public. Open the Trinity River NWR to the public for the following wildlife-oriented compatible uses: hunting, fishing, wildlife observation, wildlife photography, environmental education, and interpretation.

GOAL #5: Work cooperatively with State, private, and federal entities to assess, manage, and restore fish and wildlife resources and their habitat throughout the ecosystem and emphasize the importance of biodiversity, native flora and fauna conservation, and management.

OBJECTIVE #1 : Promote the value and use of prescribed fire across the landscape to restore the ecological communities suppressed due to the lack of burning.

STRATEGY (5.1.1): The East Texas Suboffice will assist/support the Forest Service on implementation of dormant and growing season **prescribed burns** in pine habitat on the National Forests in Texas.

STRATEGY (5.1.2): The East Texas Suboffice and the Refuge Planning Suboffice will promote the use of prescribed fire on private lands where appropriate.

OBJECTIVE # 2: Restore suitable habitat for game and non-game wildlife species through implementation of land management practices.

STRATEGY (5.2.1): The East Texas Suboffice will assist Federal, State, and Private partners with implementation of management recommendations for the **American woodcock** in east Texas, pursuant to FWS's assessment of the species' status.

STRATEGY (5.2.2): The East Texas Suboffice will assist other agencies and private partners with the restoration of the **eastern wild turkey** and their habitat in east Texas.

STRATEGY (5.2.3): The East Texas Suboffice will assist other agencies and private partners with the restoration of the **northern bobwhite** in east Texas.

PARTNERSHIP OPPORTUNITIES

Opportunities for habitat protection and restoration are available through a number of private, local, county, state, and federal partners.

Federal agencies include:

- Corps of Engineers (COE)
- Environmental Protection Agency (EPA)
- Farmers Home Administration (FmHA)
- National Park Service (NPS)
- National Resources Conservation Service (NRCS)
- U.S. Forest Service (USFS)
- U.S. Department of the Army, Fort Polk

State agencies:

- Texas Parks and Wildlife Department (TPWD)
- Louisiana Department of Wildlife and Fisheries (LDWF)
- Texas Forest Service (TFS).

Other partners include:

- Texas Nature Conservancy (TNC)
- Commercial timber companies
- conservation groups
- private landowners.



Ecologically-Based Landowner Assistance Programs

Partners for Fish and Wildlife Program, U.S. Fish and Wildlife Service, 711 Stadium Drive, Suite 252, Arlington, Texas 76011, (817) 277-1100.

The U.S. Fish and Wildlife Service (FWS) through the PFW program offers technical and cost-share assistance to landowners who wish to restore fish and wildlife habitat on private lands. Initiated in Texas in 1990, the PFW program initially targeted wetland habitat for restoration and enhancement work. However, the success of the program encouraged the FWS to expand it to improve habitats for all federal trust resources including waterfowl, other migratory birds, and candidate, threatened, and endangered species, including imperiled fishes. The PFW program provides assistance to non-federal landowners, including private landowners, local governments, native American tribes, educational institutions, and other entities.

Projects generally involve wetland, native prairie, and/or riparian restoration and/or enhancement activities. Specific efforts may include, but are not limited to, plugging drainage ditches, installing water control structures, constructing small dams or berms to form shallow-water impoundments, fencing riparian areas to control livestock, and restoring native vegetation.

Almost any degraded wetland is eligible for restoration with financial assistance by the Service. Upland habitats are eligible for financial assistance only if their restoration will directly benefit federally trust species which include migratory species and federally designated candidate, threatened, and endangered species.

Interested landowners should contact the FWS to discuss the landowner's needs and ideas for the property and, if appropriate, to arrange an on-site visit. If cost-shared assistance is requested, the landowner and FWS staff work together to prepare a project design and management plan, often with the assistance and input of local Natural Resources Conservation Service personnel. The project is submitted to the FWS and, if approved, the landowner signs a Private Lands Agreement with the FWS. The minimum Agreement term is 10 years. Once the Agreement period has expired, the landowner is not obligated to follow the Agreement guidelines.

Bayou Preservation Association (BPA)

P.O. Box 980863, Houston, Texas, 77098, (281) 992-8134.

Conservation of Private Grazing Land (CPGL) Natural Resources Conservation Service, 101 S. Main Street, Temple, Texas 76501-7682, (254) 742-9800.

Challenge Cost Share Program (CCSP), U.S. Fish and Wildlife Service, Refuges and Wildlife, 500 Gold Avenue, SW, Albuquerque, New Mexico 87103, (505) 248-6824.

Conservation Reserve Program (CRP), Farm Service Agency (FSA), P.O. Box 2900, College Station, Texas 77841, (409) 260-9235.

Environmental Quality Incentives Program (EQIP), Natural Resources Conservation Service, 101 S. Main Street, Temple, Texas 76501-7682, (254) 742-9800.

Forestry Incentives Program (FIP), Texas Forest Service, College Station, Texas 77843-2136, (409) 845-2641.

National Audubon Society (NAS), Texas State Office, 2525 Wallingwood Drive, Austin , Texas 78746, (512) 327-1943.

Natural Area Preservation Association (NAPA), 4144 Cochran Chapel Road, Dallas, Texas, 75209, (214) 352-8370 or (512) 327-4119.

The Nature Conservancy of Texas (TNC), P.O. Box 1440, San Antonio, Texas, 78295, (210) 224-8774.

North American Wetlands Conservation Act of 1989 (NAWCA), Fish and Wildlife Service, P.O. Box 1306, Albuquerque, NM 87103-1306, (505) 248-6876; Texas Parks and Wildlife Department, 4200 Smith School Road, Austin, Texas 78744, (512) 389-4578.

North American Waterfowl Management Plan Joint Venture Projects (NAWMP), U.S. Fish and Wildlife Service, P.O. Box 1306, Albuquerque, New Mexico 87103-1306, (505) 248-6634; Texas Parks and Wildlife Department, 4200 Smith School Road, Austin, Texas 78744, (512) 389-4578.

Natural Resources Conservation Service Technical Assistance (NRCS) (TA) Look in the phone directory under U.S. Government or call NRCS State Headquarters in Temple, Texas at (254) 742-9800.

Private Lands Enhancement Program (PLEP), Texas Parks and Wildlife Department, 4200 Smith School Road, Austin, Texas 78744, (512) 389-4395.

Private Lands Initiative (PLI), Texas Parks and Wildlife Department, 4200 Smith School Road, Austin, Texas 78744, (512) 389-4395.

Stewardship Incentive Program - SIP; Forest Stewardship Program (FSP) Texas Forest Service, College Station, Texas 77843-2136, (409) 845-2641.

Texas Wildlife Association (TWA) , 1635 NE Loop 410, Suite 108, San Antonio, Texas, 78209, (210) 826-2904.

The Trust for Public Land (TPL), Texas Field Office, 700 San Antonio Street, Austin, Texas, 78701, (512) 478-4644.

Voluntary Debt-for-Nature Contracts (VDFNC), Farm Service Agency, P.O. Box 2900, College Station, Texas 77841, (409) 260-9235.

Wetland Habitat Alliance of Texas (WHAT), 118 E. Hospital, Suite 208, Nacogdoches, Texas 75961, (409) 569-9428.

Wetlands Reserve Program (WRP), Natural Resources Conservation Service, 101 S. Main Street, Temple, Texas 76501-7682, (254) 742-9800.

Wildlife Habitat Incentives Program (WHIP), Natural Resources Conservation Service, 101 South Main, Temple, Texas 76501-7682, (254) 742-9800.



PUBLIC REVIEW OF EAST TEXAS ECOSYSTEM PLAN

On January 24, 1995, the initial East Texas Ecosystem Plan was sent out for comment to approximately 35 representatives of agencies, organizations and industries in east Texas. Responses were received from the following organizations:

- " U.S. Department of Agriculture, Natural Resources Conservation Service, Temple, Texas
- " U.S. Department of Agriculture, Natural Resources Conservation Service, Bryan, Texas
- " U.S. Department of Agriculture, Forest Service Southern Research Station, Nacogdoches, Texas
- " U.S. Environmental Protection Agency, Dallas, Texas
- " National Park Service, Big Thicket National Reserve, Beaumont, Texas
- " Texas Department of Agriculture, Austin, Texas
- " Texas Forest Service, College Station, Texas
- " Texas Parks and Wildlife Department, Austin, Texas
- " Texas Society of American Foresters, Lufkin, Texas
- " Champion International Corporation, Huntsville, Texas
- " Stephen F. Austin State University, College of Forestry, Nacogdoches, Texas

No public comment has been sought since the preparation of the original East Texas Ecosystem Plan of October 1995.



East Texas Ecosystem Team Members

Team Member	Representing	Address	Phone and Fax	E-mail & Internet
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Jim Neal (SPOC)	East Texas Realty Suboffice	P.O. Box 4655, SFA Station Nacogdoches, Texas 75962	P=936.569.6129 F=936.560.1486	jim_neal@fws.gov
Kathy Nemec	Clear Lake Ecological Services Field Office	17629 El Camino Real, Suite 211 Houston, Texas 77058	P=281.286.8282 F=281.488.5882	kathy_nemec@fws.gov
Carlotta Ortiz	Federal Aid Albuquerque, NM	P.O. Box 1306 Albuquerque, New Mexico 87103	P=505.248.7456 F=505.248.7471	carlotta_ortiz@fws.gov
Jeffrey A. Reid	East Texas Ecological Services Suboffice	701 North First Street, Lufkin, Texas 75901	P=936.639.8546 F=936.639.8549	jeffrey_reid@fws.gov
Mark Williams	Little River/Little Sandy National Wildlife Refuges	P.O. Box 340 Broken Bow, Oklahoma 74728	P=405.584.6211 F=405.584.2034	R2RW_LR V@fws.gov
Brent Bristow	Oklahoma Fishery Resource Office	Route 2, Box 479 Tishomingo, Oklahoma 73460	P=580.384.5710 F=580.384.5700	R2FFA_TFRO@ fws.gov

* **bold denotes single point of contact (SPOC) for the team FY 2000.**



APPENDIX A. Federally listed, proposed, and candidate endangered and threatened species; species of concern; and select game species in the East Texas Ecosystem..

SPECIES	FEDERAL STATUS*	STRATEGIES IN ETE PLAN WHICH COULD BENEFIT SPECIES	PROJECTS OR PROPOSALS	DOMINATING ASSOCIATED VEGETATION
AMPHIBIANS				
Houston toad (<i>Bufo houstonensis</i>)	E/CH	3.1.18, 3.1.19	FWS, TPWD	sandy uplands, pine/mixed-forest savannah, small wetlands; Bastrop, Austin, Burleson, Colorado, Freestone, Leon, Milam, Robertson counties
BIRDS				
Bachman's sparrow (<i>Aimophila aestivalis</i>)	SOC	1.4.1, 1.4.2, 1.4.3, 5.1.1, 5.2.2		open, park-like stands of tall pines, with substantial grassy cover but minimal midstory
Henslow's sparrow (<i>Ammodramus henslowii</i>)	SOC	1.2.6, 1.2.7, 1.4.1, 1.4.2, 1.4.3, 5.1.1, 5.2.2	Trinity River NWR: ongoing monitoring and habitat management program.	winter habitat is wet, grassy openings in pine forest and mixed woodlands.
Ferruginous hawk (<i>Buteo regalis</i>)	SOC	1.3.1		prairies, savannas; rare winter resident in central TX (not in east TX)
Mountain plover (<i>Charadrius montanus</i>)	PT	1.3.1		shortgrass prairie, plowed fields, in Central TX
Black tern (<i>Chlidonias niger</i>)	SOC	1.1.1, 1.2.6, 1.2.7		marshes, lakes, small ponds; common transient (May-June, August-September) in east TX
Northern bobwhite (<i>Colinus virginianus</i>)	GAME	1.3.1, 1.3.3, 5.1.1, 5.2.2, 5.2.3		declining populations in East Texas probably due to fire suppression
Golden-cheeked warbler (<i>Dendroica chrysoparia</i>)	E	3.1.19, 4.1.1	FWS, TPWD	oak-juniper woodlands on the Edwards Plateau in central TX

SPECIES	FEDERAL STATUS*	STRATEGIES IN ETE PLAN WHICH COULD BENEFIT SPECIES	PROJECTS OR PROPOSALS	DOMINATING ASSOCIATED VEGETATION
American swallow-tailed kite (<i>Elanoides forficatus</i>)	SOC	1.1.1, 1.1.2, 1.2.6, 1.2.7		riparian forest, woodlands, prairies; rare transient along coast but sightings are increasing
Bald eagle (<i>Haliaeetus leucocephalus</i>)	T/ DE	1.2.2, 1.2.6, 1.2.7, 3.1.19	TPWD, FWS	large, tall trees (40-120 feet) along river systems or other large body of water (lake or reservoir)
Loggerhead shrike (<i>Lanis ludovicianus migrans</i>)	SOC	1.3.1, 1.3.2		savannas, tall-grass prairies, farmlands; common permanent resident over most of state
Eastern wild turkey (<i>Meleagris gallopavo</i>)	GAME	1.4.1, 1.4.2, 1.4.3, 3.1.6, 5.1.1, 5.2.2, 5.2.3		restoration efforts by TPWD has been very successful in many areas
Wood stork (<i>Mycteria americana</i>)	SOC	1.1.1, 1.1.2, 1.1.3, 1.2.6, 1.2.7		wetlands, prairies; rare to casual at large inland lakes; may have bred formerly
Red-cockaded woodpecker (<i>Picoide s borealis</i>)	E	1.4.1, 1.4.2, 1.4.3, 3.1.1, 3.1.2, 3.1.3, 3.1.4, 3.1.5, 3.1.6	FWS, TPWD, USFS	upland pine/ pine hardwood forests
White-faced ibis (<i>Plegadis chihi</i>)	SOC	1.1.1, 1.2.6, 1.2.7	TPWD	marshes, lakes, ponds; rare transient in east TX
American woodcock (<i>Scolopax minor</i>)	GAME	5.1.1, 5.2.1		wetlands and young pine stands; research needed
Interior least tern (<i>Sterna antillarum</i>)	E	1.2.6, 1.2.7, 3.1.19	FWS	broad sandbars and barren shores along wide, shallow rivers; historically on Red River
Black-capped vireo (<i>Vireo atricapillus</i>)	E	3.1.19	FWS, TPWD	scattered trees and clumps of oak scrub or juniper growing to ground level, with open areas of bare ground, rock, or grasses; central TX

SPECIES	FEDERAL STATUS*	STRATEGIES IN ETE PLAN WHICH COULD BENEFIT SPECIES	PROJECTS OR PROPOSALS	DOMINATING ASSOCIATED VEGETATION
FISH				
Smalleye shiner (<i>Notropis buccula</i>)	SOC	1.2.6, 1.2.7, 2.1.3		broad, turbid channels of mainstream river, over sandy bottom; upper Brazos River drainage
Bluehead shiner (<i>Notropis hubbsi</i>)	SOC	1.2.6, 1.2.7, 2.1.3		bottomland streams; Caddo Lake drainage
Sharpnose shiner (<i>Notropis oxyrhynchus</i>)	SOC	1.2.6, 1.2.7, 2.1.3		large turbid river with bottom a combination of sand/gravel/clay-mud; Brazos River drainage
Sabine shiner (<i>Notropis sabinae</i>)	SOC	1.2.6, 1.2.7, 2.1.3		Nacogdoches County in LaNanna Creek, Houston County in Austin Branch of the Neches River, Sabine River drainage in east Tex and LA
Blackside darter (<i>Percina maculata</i>)	SOC	1.2.6, 1.2.7, 2.1.3		clear streams; NE TX
Paddlefish (<i>Polyodon spathula</i>)	SOC	1.1.1, 1.1.2, 1.2.6, 1.2.7, 2.1.1	TPWD	large, slow-moving rivers with clean gravel bars for spawning; Neches, Trinity, Sabine rivers
Shovelnose sturgeon (<i>Scaphirhynchus platyrhynchus</i>)	SOC	1.2.6, 1.2.7, 2.1.1, 2.1.3		Red River
INVERTEBRATES				
Black lordithon rove beetle (<i>Lordithon niger</i>)	SOC	1.3.1		Dallas County
Texas heelsplitter (<i>Potamilus amphichaenus</i>)	SOC	1.2.6, 1.2.7, 2.1.3	TPWD	rivers and streams of Neches and Sabine river systems

SPECIES	FEDERAL STATUS*	STRATEGIES IN ETE PLAN WHICH COULD BENEFIT SPECIES	PROJECTS OR PROPOSALS	DOMINATING ASSOCIATED VEGETATION
MAMMALS				
Louisiana black bear (<i>Ursus americanus luteolus</i>)	T	1.2.6, 1.2.7, 3.1.15	TPWD	bottomland hardwood, upland hardwoods, mixed forest, wetlands, agricultural fields; baldcypress and tupelo trees for denning
Southeastern myotis bat (<i>Myotis austroriparius</i>)	SOC	1.1.1, 1.1.2, 1.2.6, 1.2.7	TPWD	bottomland hardwood, hardwood-pine, pine-oak forests, caves, hollow trees, abandoned buildings
Rafinesque's big-eared bat (<i>Corynorhinus rafinesquii</i>)	SOC	1.1.1, 1.1.2, 1.2.6, 1.2.7	TPWD	longleaf-pine and pine-oak forest, hollow trees, abandoned buildings
PLANTS				
Large-fruited sand verbena (<i>Abronia macrocarpa</i>)	E	1.3.1	TPWD, Austin ES FO	deep sands in post oak woodland openings; Freestone, Leon, Robertson counties
Navasota fake-foxglove (<i>Agalinis navasotensis</i>)	SOC			Grimes County
Incised groovebur (<i>Agrimonia incisa</i>)	SOC	3.1.9	USFS	Catahoula formation/hillside seepage-bogs; Angelina, Jasper, Newton, Sabine counties
Rough-stemmed aster (<i>Aster puniceus</i> ssp. <i>elliottii</i> var. <i>scabrigaulis</i>)	SOC	1.2.6, 1.2.7, 3.1.9		open seepage-bogs of Carrizo, Sparta, Queen City formations; Anderson, Cherokee, Franklin, Henderson, Hopkins, Smith, Van Zandt, Wood counties
Tissue sedge (<i>Carex hyalina</i>)	SOC	1.2.6, 1.2.7, 3.1.9		swamps, moist soils in open bottomland forests; Cass, Dallas, Houston, Liberty, Walker counties
Golden-wave tickseed (<i>Coreopsis intermedia</i>)	SOC	1.3.1, 3.1.3, 3.1.9		sandy uplands in Anderson, Cass, Cherokee, Franklin, Freestone, Harrison, Henderson, Houston, Leon, Trinity, Upshur, Wood counties

SPECIES	FEDERAL STATUS*	STRATEGIES IN ETE PLAN WHICH COULD BENEFIT SPECIES	PROJECTS OR PROPOSALS	DOMINATING ASSOCIATED VEGETATION
Warner's hawthorn (<i>Crataegus warneri</i>)	SOC	1.3.1, 3.1.9, USFS		sandy uplands in Anderson, Cherokee, Freestone, Houston, Morris, Panola, Walker counties
Southern lady's -slipper (<i>Cypripedium kentuckiense</i>)	SOC	3.1.9, USFS		wooded seepage areas and mesic ravines, blackgum/beechn forest; Cass, Harrison, Nacogdoches, Sabine, San Augustine counties
Dwarf (small headed) pipewort (<i>Eriocaulon komickianum</i>)	SOC	3.1.9, USFS		upland seeps/bogs in post-oak woodlands; Anderson, Brazos, Leon (?), Limestone, Tyler cos.
White firewheel <i>Gaillardia aestivalis</i> var. <i>winkleri</i>)	SOC	3.1.9		sandy uplands, in openings within pine/oak woodlands; Hardin County
Glass mountain coral-root (<i>Hexalectris nitida</i>)	SOC	(not on TPWD or TOES list)		
Neches River rose-mallow (<i>Hibiscus dasycalyx</i>)	C	1.2.6, 1.2.7, 3.1.12, 3.1.13,	FWS	open, semi-permanent wetlands in Cherokee, Houston, Trinity counties
Tiny bog buttons (<i>Lachnocaulon digynum</i>)	SOC	3.1.9, USFS		Catahoula formation/hillside seepage-bogs; Jasper and Newton counties
Texas golden glade cress (<i>Leavenworthia texana</i>)	C	3.1.14	TNC, FWS	Weches seepage-glades; Sabine and San Augustine counties
White bladderpod (<i>Lesquerella pallida</i>)	E	3.1.11	TNC, FWS	Weches seepage-glades in San Augustine County
Slender gay feather (<i>Liatis tenuis</i>)	SOC	3.1.9, USFS		upland pine/bluestem savannas in Angelina, Jasper, Newton, Sabine, Tyler counties
Texas trailing phlox (<i>Phlox nivalis</i> var. <i>texensis</i>)	E	3.1.10	TNC, FWS	deep sandy soils in longleaf-pine savanna or mixed forest; Hardin, Polk, Tyler counties

SPECIES	FEDERAL STATUS*	STRATEGIES IN ETE PLAN WHICH COULD BENEFIT SPECIES	PROJECTS OR PROPOSALS	DOMINATING ASSOCIATED VEGETATION
Rattlesnake root (<i>Prenanthes barbata</i>)	SOC	3.1.9, USFS		moist sands and hillside seepage-bogs; Hardin, Jasper, Nacogdoches, Shelby counties
Bog coneflower (<i>Rudbeckia scabrifolia</i>)	SOC	3.1.9, USFS		Catahoula formation/hillside seepage-bogs; Angelina, Jasper, Newton, Sabine counties
Scarlet catch fly (<i>Silene subciliata</i>)	SOC	3.1.9		sandy soil in longleaf-pine/mixed forest savanna; Hardin, Jasper, Liberty, Newton, Polk, Sabine, Shelby, Tyler counties
Navasota ladies'-tresses (<i>Spiranthes parksii</i>)	E	3.1.7, 3.1.8	TNC, USFS, FWS	moist sandy soils in post oak savanna; Navasota and Brazos River drainages (primarily Brazos and Grimes counties) and in Jasper County
Drummond's yellow-eyed grass (<i>Xyris drummondii</i>)	SOC	3.1.9, USFS		Catahoula formation/hillside seepage-bogs; Angelina, Jasper, Newton counties
Rough-leaf yellow-eyed grass (<i>Xyris scabrifolia</i>)	SOC	3.1.9, USFS		Catahoula formation/hillside seepage-bogs; Angelina, Jasper, Newton, Sabine counties
REPTILES				
Northern scarlet snake (<i>Cemophora coccinea copei</i>)	SOC	1.1.1		sandy ridges of pine/hardwood forest of east TX; oak/hickory forest; pine/hardwood forest
Timber (=canebrake) rattlesnake (<i>Crotalus horridus</i>)	SOC	1.1.1, 1.1.2, 1.2.6, 1.2.7		dense undergrowth in floodplain forests and swamps of east TX
Alligator snapping turtle (<i>Macrochelys temminckii</i>)	SOC	1.1.1, 1.1.2, 1.2.6, 1.2.7	USFS, TPWD	freshwater wetlands with muddy bottoms

SPECIES	FEDERAL STATUS*	STRATEGIES IN ETE PLAN WHICH COULD BENEFIT SPECIES	PROJECTS OR PROPOSALS	DOMINATING ASSOCIATED VEGETATION
Brazos water snake (<i>Nerodia harteri</i>)	SOC	2.1.3		rocks in shallow flowing water or along rocky shorelines; rocky parts of upper Brazos River drainage, Lake Granbury, Possum Kingdom Lake
Texas horned lizard (<i>Phrynosoma cornutum</i>)	SOC			open, flat terrain, bare ground; central and west Texas, formerly east Texas
Louisiana pine snake (<i>Pituophis nuthveni</i>)	C	3.1.16	USFS	pine forest and sandy soils; Angelina, Jasper, Newton, Sabine, Tyler, Trinity counties

*

E - Endangered

T - Threatened

DE - Delisting in progress of a threatened and endangered species

P - Proposed threatened and endangered species

C - Candidate species for threatened or endangered species status

SOC - Species of concern (including species listed as threatened or endangered by Texas Parks and Wildlife Department)

GAME - Game species

CH - Critical habitat designated



APPENDIX B. Base and above base funds required per fiscal year (FY) to accomplish the objectives and strategies of the East Texas Ecosystem Plan Beyond 2000.

GOAL. OBJECTIVE. STRATEGY	RESOURCE BASE	LEAD OFFICE(s)	FY 01	FY 01	FY 02	FY 02	FY 03	FY 03	RESEARCH OR ACTION PROPOSALS SUBMITTED* PRIORITY RANK / FUNDED
			BASE FUNDS / FTE	ABOVE BASE FUNDS / FTE	BASE FUNDS / FTE	ABOVE BASE FUNDS / FTE	BASE FUNDS / FTE	ABOVE BASE FUNDS / FTE	
1.1.1	Trinity River National Wildlife Refuge land acquisition	Realty Trinity River NWR	0 10,000 / 0.1	0 0	2,000,000 / 0 0	2,000,000 / 0 0	0 0	3,000,000 / 0 100,000 / 1.0	N/A
1.1.2	Bottomland Hardwoods and wetlands acquisition and protection	Arlington FO Lafayette ES Trinity River NWR ET Refuges Suboffice	3,200 / 0.05 0 20,000 / 0.2 80,000 / 0.8	0 0 0 10,000 / 0.1	3,200 / 0.05 0 0 1,000 / 0.02	0 0 40,000 / 0.5 20,000 / 0.2	3,200 / 0.05 0 0 0	0 0 100,000 / 1.0 30,000 / 0.3	N/A
1.1.3	Trinity River National Wildlife Refuge flora and fauna inventory	Trinity River NWR	0	23,000 / 0	0	25,000 / 0.5	0	25,000 / 0.5	15,000 (1) / 15,000
1.2.1	Wildlife habitat enhancement on private lands	Arlington FO Clear Lake ES	3,200 / 0.05 3,200 / 0.05	0 0	3,200 / 0.05 3,200 / 0.05	0 0	3,200 / 0.05 3,200 / 0.05	0 0	N/A
1.2.2	Wetland protection on private lands	Arlington FO Clear Lake ES	52,000 / 0.8 20,000 / 0.2	83,000 / 0 20,000 / 0	52,000 / 0.8 20,000 / 0.2	85,000 / 0 20,000 / 0	52,000 / 0.8 0	85,000 / 0 0	N/A
1.2.3	Support for wetland programs	Arlington FO Clear Lake ES	6,500 / 0.10 2,500 / 0.03	38,000 / 0.5 17,000 / 0.2	6,500 / 0.10 2,500 / 0.03	39,000 / 0.5 17,000 / 0.2	6,500 / 0.10 0	39,000 / 0.5 0	N/A
1.2.4	Federal project wetland and wildlife resource protection	Arlington FO Clear Lake ES Lafayette ES	82,300 / 1.6 30,000 / 0.3 25,000 / 0.4	0 0 0	83,200 / 1.6 30,000 / 0.3 25,000 / 0.4	0 0 0	83,200 / 1.6 0 25,000 / 0.4	0 30,000 / 0.3 0	N/A
1.2.5*	Invasive exotic species	Arlington FO Clear Lake ES Lafayette ES Trinity River NWR ET Refuges Suboffice	2,500 / 0.03 2,500 / 0.03 0 10,000 / 0.1 1,000 / 0.02	0 0 0 35,000 / 1.0 10,000 / 0.1	0 0 0 0 1,000 / 0.02	50,000 / 1.0 50,000 / 1.0 0 40,000 / 1.0 20,000 / 0.2	0 0 0 0 1,000 / 0.02	60,000 / 1.0 60,000 / 1.0 0 45,000 / 1.0 30,000 / 0.3	N/A
1.2.6*	Lower Mississippi Valley Joint Venture	East Texas Realty Suboffice	10,000/0.1	0	10,000/0.1	0	10,000/ 0.1	0	N/A

GOAL. OBJECTIVE. STRATEGY	RESOURCE BASE	LEAD OFFICE(s)	FY 01	FY 01	FY 02	FY 02	FY 03	FY 03	RESEARCH OR ACTION PROPOSALS SUBMITTED* PRIORITY RANK / FUNDED
			BASE FUNDS / FTE	ABOVE BASE FUNDS / FTE	BASE FUNDS / FTE	ABOVE BASE FUNDS / FTE	BASE FUNDS / FTE	ABOVE BASE FUNDS / FTE	
1.2.7*	East Texas Wetlands Project	Arlington FO ET Suboffice ET Refuges Suboffice Clear Lake ES Austin FO	80,000 / 0.5	0	80,000 / 0.5	0	80,000 / 0.5	0	50,000 (1) / 0
1.3.1	Private lands prairie restoration	Arlington FO Clear Lake ES	3,200 / 0.05 1,500 / 0.03	20,000 / 0 6,000 / 0	3,200 / 0.05 1,500 / 0.03	20,500 / 0 6,000 / 0	3,200 / 0.05 1,500 / 0.03	20,000 / 0 6,000 / 0	N/A
1.3.2	Federal prairie restoration	Arlington FO	3,100 / 0.05	0	3,100 / 0.05	0	3,100 / 0.05	0	N/A
1.4.1	Peason Ridge Longleaf pine and bottomland hardwoods natural diversity	Lafayette ES	0	6,000 / 0.4	0	6,500 / 0.4	0	6,000 / 0.4	N/A
1.4.2	Upland pine/ pine hardwood habitat conservation	ET Suboffice ET Refuges Suboffice	3,100 / 0.05 2,500 / 0.025	*20,000 0	3,100 / 0.05 2,500 / 0.025	0 5,000 / 0.05	3,100 / 0.05 5,000 / 0.5	0 0	15,000 (1) / 12,000
1.4.3	Longleaf pine restoration / RCW habitat improvement on Champion lands.	ET Suboffice ET Refuges Suboffice	3,100 / 0.05 7,000 / 0.01	0 0	3,100 / 0.05 1,500 / 0.015	0 5,000 / 0.5	3,100 / 0.05 10,000 / 0.1	0 ?	N/A
2.1.1	Paddlefish production and stocking	Federal Aid Natchitoches FH	120,000 / 1.8	0	120,000 / 1.8	0	120,000 / 1.8	0	N/A
2.1.2	Striped bass production and habitat enhancement	Federal Aid Natchitoches FH	165,000 / 3.0 ?	0 ?	165,000 / 3.0 ?	0 ?	165,000 / 3.0 ?	0 ?	N/A
2.1.3	Riverine fishery resource evaluation	Arlington FO Lafayette ES Trinity River NWR ET Refuges Suboffice	3,200 / 0.05 7,200 / 0.4 0 1,000 / 0.01	0 0 0 0	3,200 / 0.05 7,200 / 0.4 0 1,000 / 0.01	0 0 10,000 / 0.2 0	3,200 / 0.05 7,200 / 0.4 0 1,000 / 0.01	0 0 10,000 / 0.2 5,000 / 0.5	N/A
3.1.1	Red-cockaded woodpecker HCP implementation	ET Suboffice	3,700 / 0.06	0	3,700 / 0.06	0	3,700 / 0.06	0	N/A
3.1.2	Red-cockaded woodpecker Translocation Cooperative	ET Suboffice	6,200 / 0.10	15,000 / 0	6,200 / 0.10	80,000 / 0	6,200 / 0.10	80,000 / 0	65,000 (1) / 0

GOAL. OBJECTIVE. STRATEGY	RESOURCE BASE	LEAD OFFICE(s)	FY 01	FY 01	FY 02	FY 02	FY 03	FY 03	RESEARCH OR ACTION PROPOSALS SUBMITTED* PRIORITY RANK / FUNDED
			BASE FUNDS / FTE	ABOVE BASE FUNDS / FTE	BASE FUNDS / FTE	ABOVE BASE FUNDS / FTE	BASE FUNDS / FTE	ABOVE BASE FUNDS / FTE	
3.1.3	Red-cockaded woodpecker on non-industrial private lands	ET Suboffice	4,300 / 0.07	0	4,300 / 0.07	0	4,300 / 0.07	0	N/A
3.1.4	Red-cockaded woodpecker on the Alabama -Coushatta Indian Reservation	ET Suboffice	1,900 / 0.03	0	1,900 / 0.03	0	1,900 / 0.03	0	N/A
3.1.5	Red-cockaded woodpecker habitat evaluation on the windstorm	ET Suboffice	3,100 / 0.05	0	1,900 / 0.03	0	1,900 / 0.03	0	N/A
3.1.6	Red-cockaded woodpecker management on Fort Polk	Lafayette ES	0	9,100 / 0.15	0	9,100 / 0.15	0	9,100 / 0.15	N/A
3.1.7	Navasota ladies'-tresses surveys	ET Suboffice Clear Lake ES	3,100 / 0.05 3,000 / 0.05	0 0	3,100 / 0.05 3,000 / 0.05	0 0	3,100 / 0.05 3,000 / 0.05	0 0	N/A
3.1.8	Navasota ladies'-tresses conservation	Clear Lake ES	10,000 / 0.2	0	10,000 / 0.2	0	10,000 / 0.2	0	N/A
3.1.9	Plant species of concern on Federal lands	Arlington FO Clear Lake ES	9,300 / 0.15 4,500 / 0.07	0 0	9,300 / 0.15 4,500 / 0.07	0 0	9,300 / 0.15 4,500 / 0.07	0 0	N/A
3.1.10	Texas Trailing Phlox management and restoration	Clear Lake ES	7,000 / 0.1	4,000 / 0	8,000 / 0.1	4,000 / 0	9,000 / 0.1	5,000 / 0	N/A
3.1.11	White bladderpod habitat restoration	Clear Lake ES ET Refuges Suboffice	7,000 / 0.1 1,000 / 0.02	6,000 / 0 0	8,000 / 0.1 1,000 / 0.02	6,000 / 0 0	9,000 / 0.1 1,000 / 0.02	6,000 / 0 0	N/A
3.1.12	Neches River Rose-mallow habitat restoration	Clear Lake ES	9,000 / 0.15	8,000 / 0	10,000 / 0.15	8,000 / 0	10,000 / 0.15	8,000 / 0	N/A
3.1.13	Neches River Rose-Mallow listing	Clear Lake ES	8,000 / 0.1	0	8,000 / 0.15	0	5,000 / 0.1	0	N/A
3.1.14	Texas Golden Glade status	Clear Lake ES	8,000 / 0.15	0	8,000 / 0.15	0	5,000 / 0.1	0	N/A
3.1.15	Louisiana black bear	Clear Lake ES	2,500 / 0.04	0	2,500 / 0.04	0	2,500 / 0.04	0	N/A

GOAL. OBJECTIVE. STRATEGY	RESOURCE BASE	LEAD OFFICE(s)	FY 01	FY 01	FY 02	FY 02	FY 03	FY 03	RESEARCH OR ACTION PROPOSALS SUBMITTED* PRIORITY RANK / FUNDED
			BASE FUNDS / FTE	ABOVE BASE FUNDS / FTE	BASE FUNDS / FTE	ABOVE BASE FUNDS / FTE	BASE FUNDS / FTE	ABOVE BASE FUNDS / FTE	
3.1.16	Louisiana Pine Snake	Lafayette ES Clear Lake ES ET Suboffice	6,200 / 0.1 10,000 / 0.15 6,200 / 0.10	0	6,200 / 0.1 10,000 / 0.15 6,200 / 0.10	0	6,200 / 0.1 8,000 / 0.1 6,200 / 0.10	0	N/A
3.1.17	Houston Toad technical guidance	Austin FO	10,500 / 0.2	0	0	0	0	0	N/A
3.1.18	Houston Toad recovery plan revision	Austin FO Clear Lake ES	10,000 / 0.2 5,000 / 0.1	0 0	10,000 / 0.2 5,000 / 0.1	0 0	6,000 / 0.1 2,000 / 0.05	0 0	N/A
3.1.19	Section 7 consultation	Arlington FO Clear Lake ES Lafayette ES	53,400 / 1.3 25,000 / 0.5 66,000 / 1.2	0 0 0	53,400 / 1.3 25,000 / 0.5 66,000 / 1.2	0 0 0	53,400 / 1.3 25,000 / 0.05 66,000 / 1.2	0 0 0	N/A
4.1.1	Public Outreach	Arlington FO Clear Lake ES Lafayette ES Trinity River NWR ET Refuges Suboffice	17,000 / 0.25 9,000 / 0.2 1,000 / 0.01 0 1,000 / 0.01	0 0 0 0 0	17,000 / 0.25 9,000 / 0.2 1,000 / 0.01 0 1,000 / 0.01	0 0 0 75,000 / 1.0 0	17,000 / 0.25 9,000 / 0.2 1,000 / 0.01 0 2,000 / 0.02	0 0 0 85,000 / 1.0 0	N/A
4.1.2*	Refuge Public Use	Trinity River NWR	5,000 / 0.1	0	0	125,000 / 2.0	0	135,000 / 2.0	5,000 (1) / 1,500
5.1.1*	Restoring fire to the ecosystem	ET Suboffice ET Refuges Suboffice	1,000 / 0.01 2,500 / .025	0 0	1,000 / 0.01 2,500 / 0.025	0 5,000 / 0.05	1,000 / 0.01 5,000 / 0.05	0 10,000 / 0.1	N/A
5.1.2*	Prescribed Fire on Private Lands	ET Suboffice ET Refuges Suboffice	1,000 / 0.01 1,000 / 0.01	0 0	1,000 / 0.01 1,000 / 0.01	0 0	1,000 / 0.01 1,000 / 0.01	0 0	N/A
5.2.1*	American Woodcock	ET Suboffice	1,900 / 0.03	*7,500 / 0	1,900 / 0.03	0	1,900 / 0.03	0	N/A
5.2.2*	Eastern Wild Turkey restoration and habitat enhancement	ET Suboffice Trinity River NWR	1,900 / 0.03 1,000 / 0.01	0	1,900 / 0.03 1,000 / 0.01	0	1,900 / 0.03 0	5,000 / 0.1	N/A
5.2.3*	bobwhite conservation	ET Suboffice	1,900 / 0.03	0	1,900 / 0.03	0	0	0	N/A

* denotes a new strategy in this Plan Revision